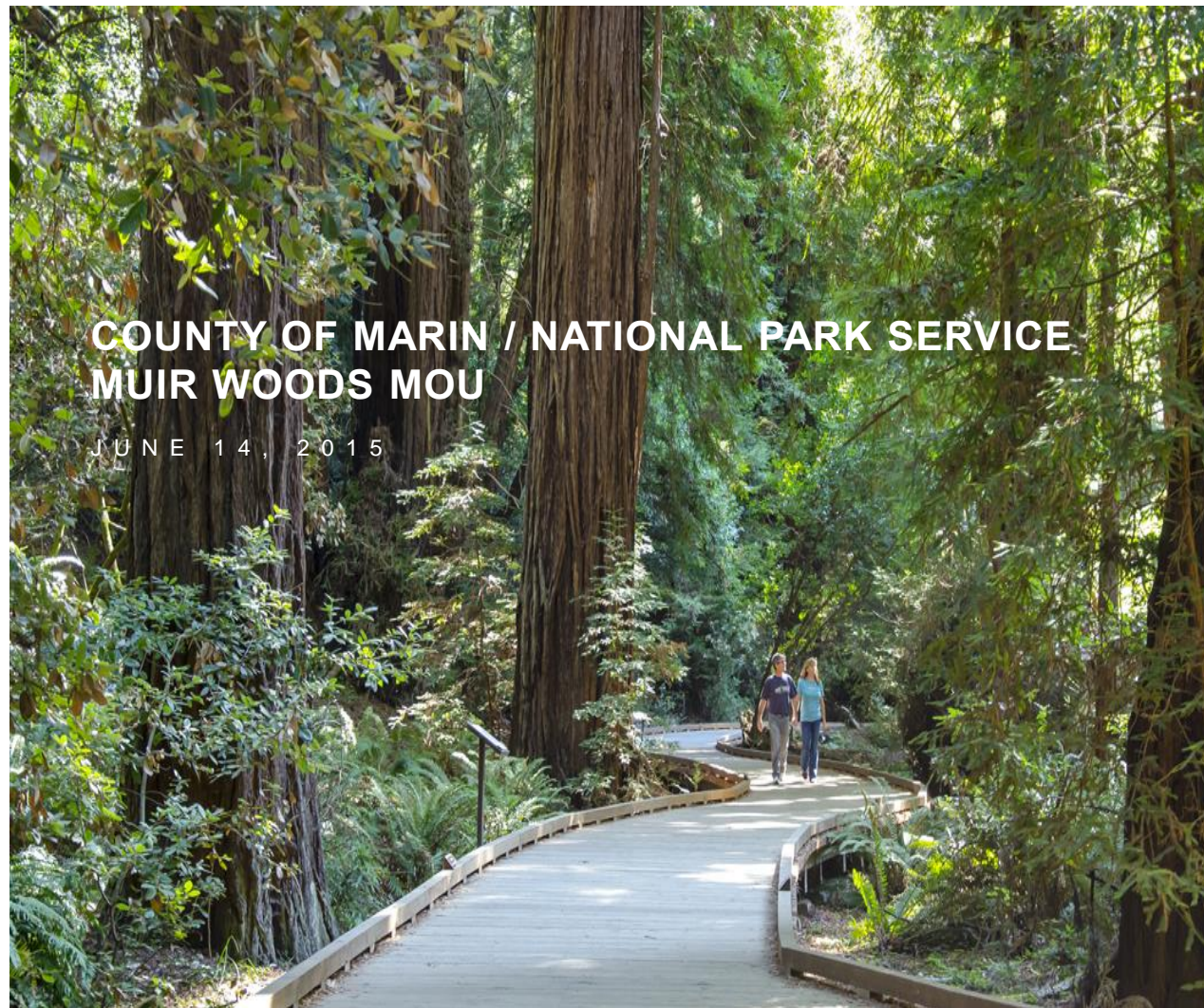


Department of Public Works
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San Rafael, CA 94903
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415 473 3232 TTY
CRS Dial 711
marincounty.org/pw



COUNTY OF MARIN / NATIONAL PARK SERVICE MUIR WOODS MOU

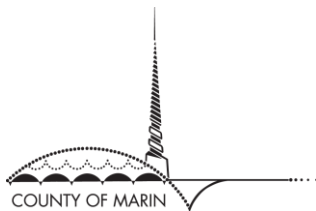
JUNE 14, 2015



MUIR WOODS MOU UPDATE

R E V I E W

- Joint County / NPS presentation
- MOU Summary
 - Description of parking reduction
- Accomplishments Implementing the MOU
 - Parking restrictions, regulatory
 - Bollards, physical
 - Enforcement
 - Parking management
- Reservation system update
- Other road & watershed activities



MUIR WOODS MOU UPDATE

MOU SUMMARY

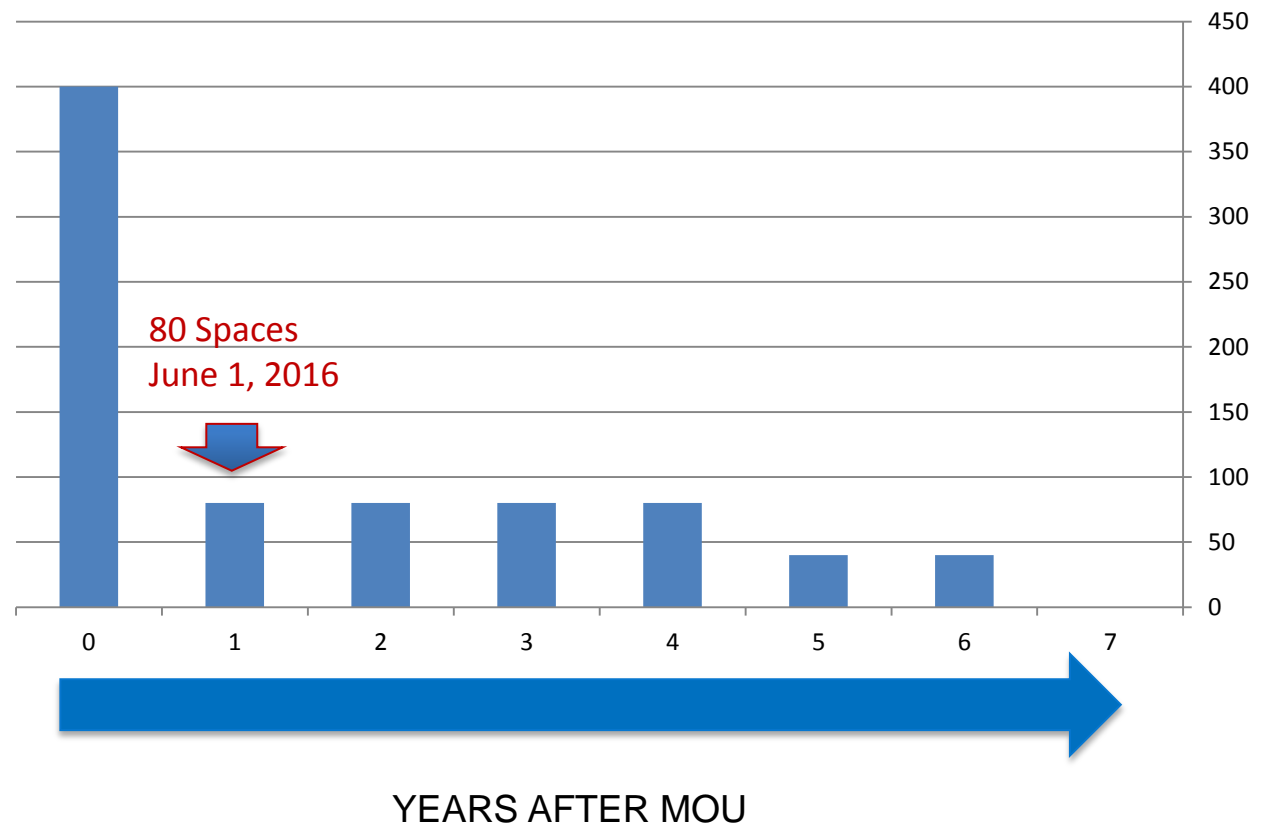
- NPS creates reservation system for visitors using motorize transportation/tour bus operators
- NPS manages the reservation system to reduce peak attendance and associated traffic/parking demand
- Parking Management Corridor is created by County for NPS parking permits
- Phased road parking reductions to only 30 spaces within 7 years
- Parking enforcement and controls are enhanced for all of Muir Woods Road, Sheriff retains authority, NPS adds staff
- Continue to collaborate to improve Redwood Creek water quality and environmental conditions
- Work to improve public transit and public messaging

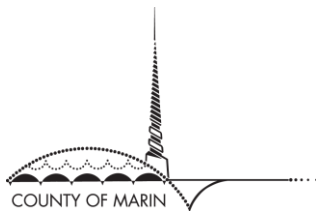


MUIR WOODS MOU UPDATE

ROADSIDE PARKING REDUCTION SUMMARY

Parking South of Bridge





MUIR WOODS MOU UPDATE

ACCOMPLISHMENTS

- Interagency close coordination and collaboration
 - Regular meetings (Sheriff, NPS, Parks, County)
 - Design / build coordination
- NPS parking enforcement authority granted
- Reduced available shoulder parking
 - Parking ordinance and higher fines
 - Co. designed (plans/specs) parking barriers
 - NPS constructed bollards to discourage parking
 - Erosion and sediment controls
- Other site improvements and reservation system progress (NPS)

MUIR WOODS MOU UPDATE

PARKING CONTROLS, REGULATORY



MUIR WOODS MOU UPDATE

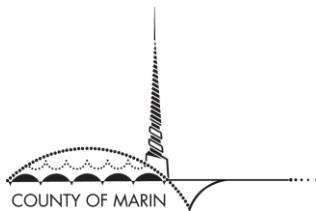
PARKING CONTROLS & EROSION CONTROL



MUIR WOODS MOU UPDATE

PARKING CONTROLS, CABLES





MUIR WOODS MOU UPDATE

FUTURE ROAD IMPROVEMENTS

Road Rehab Project, Federal Land Access Program Grant

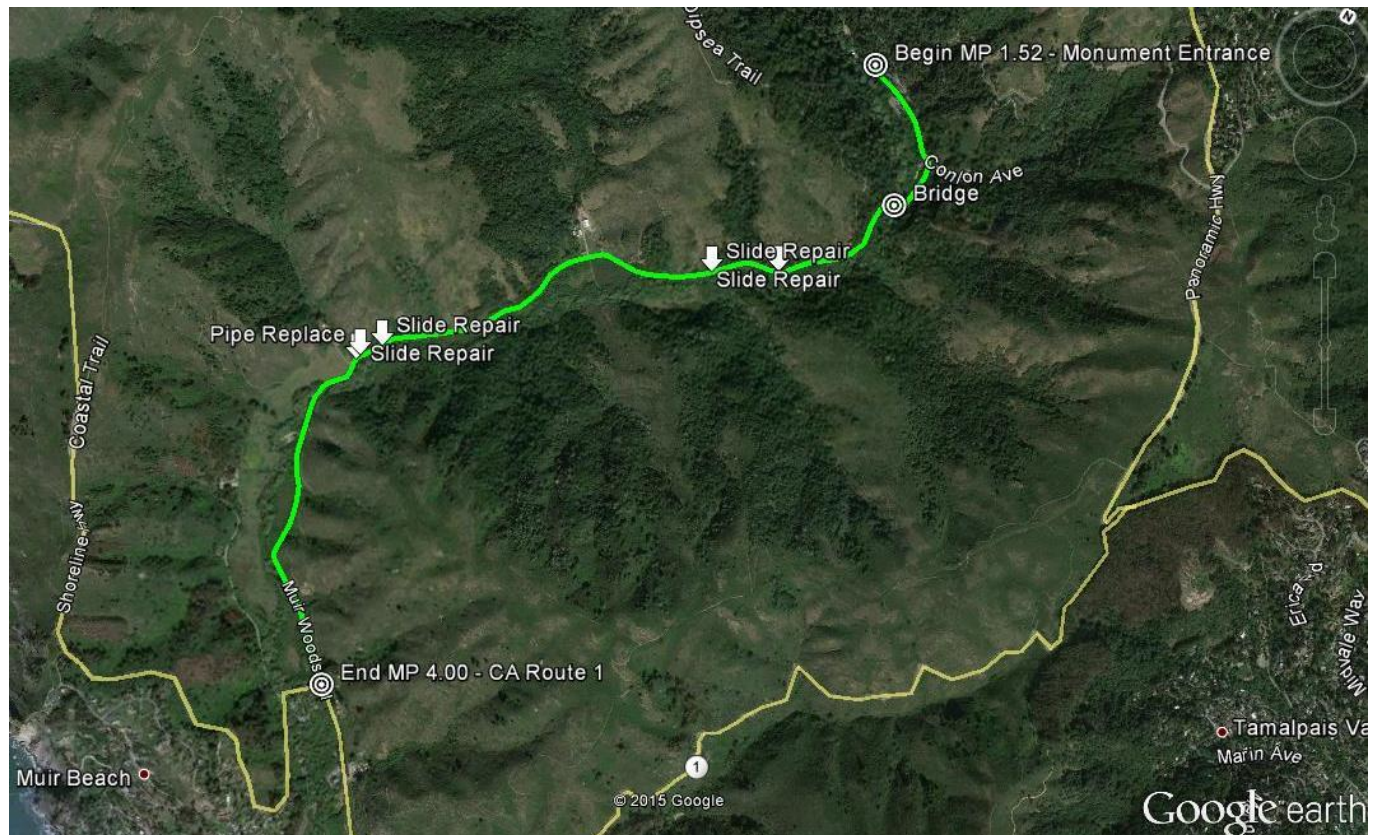
- 2.48 miles of new asphalt resurfacing – 24 ft. wide (11-foot lanes with 1-foot shoulders)
- Slide repairs at various locations
- Approximately 36 culverts identified for repair/replace, opportunities to decrease sediment load into Redwood Creek
- Environmental and design complete 2017 by FHWA
- Construction scheduled for 2019 by FHWA
- \$5 million, design and construct costs

Concrete Bridge (MP 1.90) Replacement Grant

- Build new bridge just downstream of existing
- \$2.1 million, design and construct
- Possible combine road bridge construction

MUIR WOODS MOU

FUTURE ROAD IMPROVEMENTS





MUIR WOODS MOU UPDATE

MUIR WOODS ROAD IMPROVEMENTS

NPS Milestones

- NPS secured funding for project - ~\$520,000
- Prepared Stormwater Pollution Prevention Plan (SWPPP)
 - Required monitoring throughout project, inspections during rain events
 - Regional Water Quality Control Board site visit on January 15, 2016
 - No exceedances or violations during project
- Construction start - January 11
- Project completion - February 25

MUIR WOODS MOU UPDATE

MUIR WOODS ROAD IMPROVEMENTS



Scope of Work

- Muir Woods Road - Per County design, install:
 - 6" posts on Upper Muir Woods Road
 - 4" posts on Lower Muir Woods Road (Frank's Valley Road)
 - Stormwater measures
 - Shoulder backing to improve safety and prevent further road edge deterioration
- Conlon Ave. - Per NPS design, install:
 - Widen driveway to improve safety
 - Improve lot design (grading, understructure, etc) to reduce sheetflow and sedimentation
 - Install BMP's
 - Install wheelstops and signs

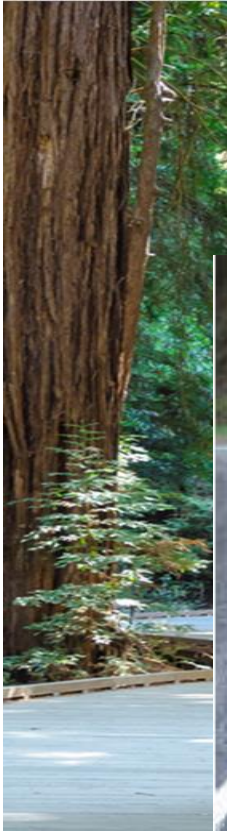
MUIR WOODS MOU UPDATE

MUIR WOODS ROAD IMPROVEMENTS

Muir Woods Road

BEFORE

AFTER



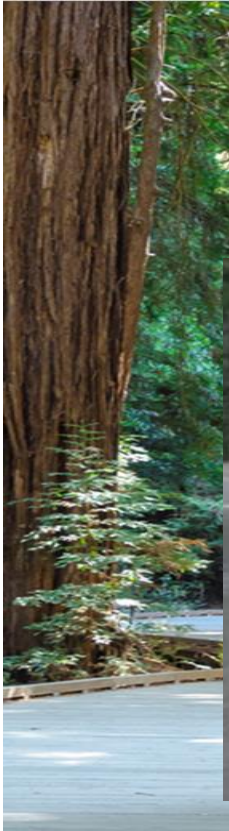
MUIR WOODS MOU UPDATE

MUIR WOODS ROAD IMPROVEMENTS

Muir Woods Road

BEFORE

AFTER



MUIR WOODS MOU UPDATE

MUIR WOODS ROAD IMPROVEMENTS

Muir Woods Road

BEFORE

AFTER



MUIR WOODS MOU UPDATE

MUIR WOODS ROAD IMPROVEMENTS

Muir Woods Road

BEFORE

AFTER



MUIR WOODS MOU UPDATE

MUIR WOODS ROAD IMPROVEMENTS

Muir Woods Road

BEFORE

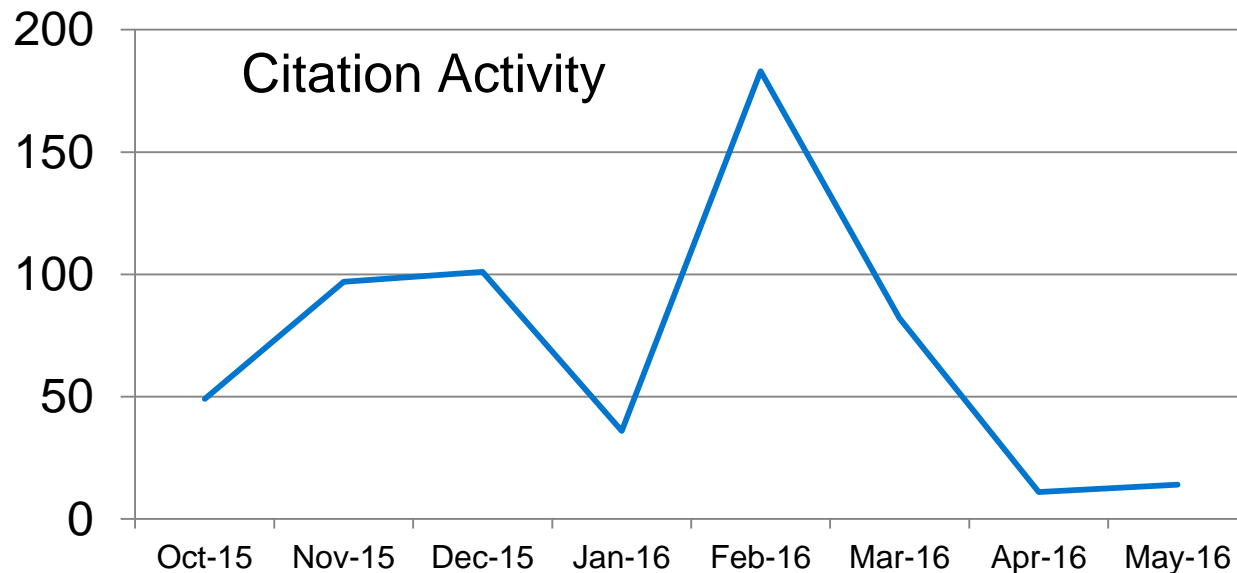
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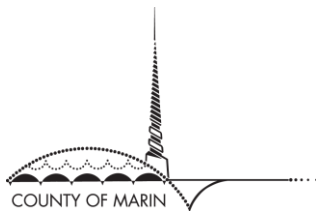


MUIR WOODS MOU UPDATE

PARKING ENFORCEMENT



- Citations are only a small percentage of the actual parking contacts made.
- Over 560 citations and approximately \$50,000 in Revenue has been generated with 0% retained by NPS, 77% by County
- Overall compliance is on the rise, both due to awareness, presence, parking attendants making contacts and managing Muir Woods lots and parking restrictions



MUIR WOODS MOU UPDATE

P A R K I N G E N F O R C E M E N T

- 1 FTE is equal to about 20 hours of general patrol; Weekends and holidays are a priority
- Previously operated with 2.5 FTE allocated with 0-1 persons engaged in parking management in our lots only
- Since October with the MOU and added authority we allocated 3.5 FTE with presence ranging from 1-2 in Muir Woods area and 1-2 engaged in parking management in road and lots
- We had an unanticipated level of vacancy in the FTEs for April and May that has reduced activity, but that will be improved this month and throughout the summer
- We enter tickets directly into the County's electronic citation system and are training more Law Enforcement Rangers



MUIR WOODS MOU UPDATE

ARRIVAL MANAGEMENT

Muir Woods Shuttle

- Last year's expansion to 7 days per week during peak season (June-August) continued in 2016

Parking Attendants

- NPS has added attendants to support law enforcement in ensuring traffic flow and parking regulation compliance

Changeable Message Signs

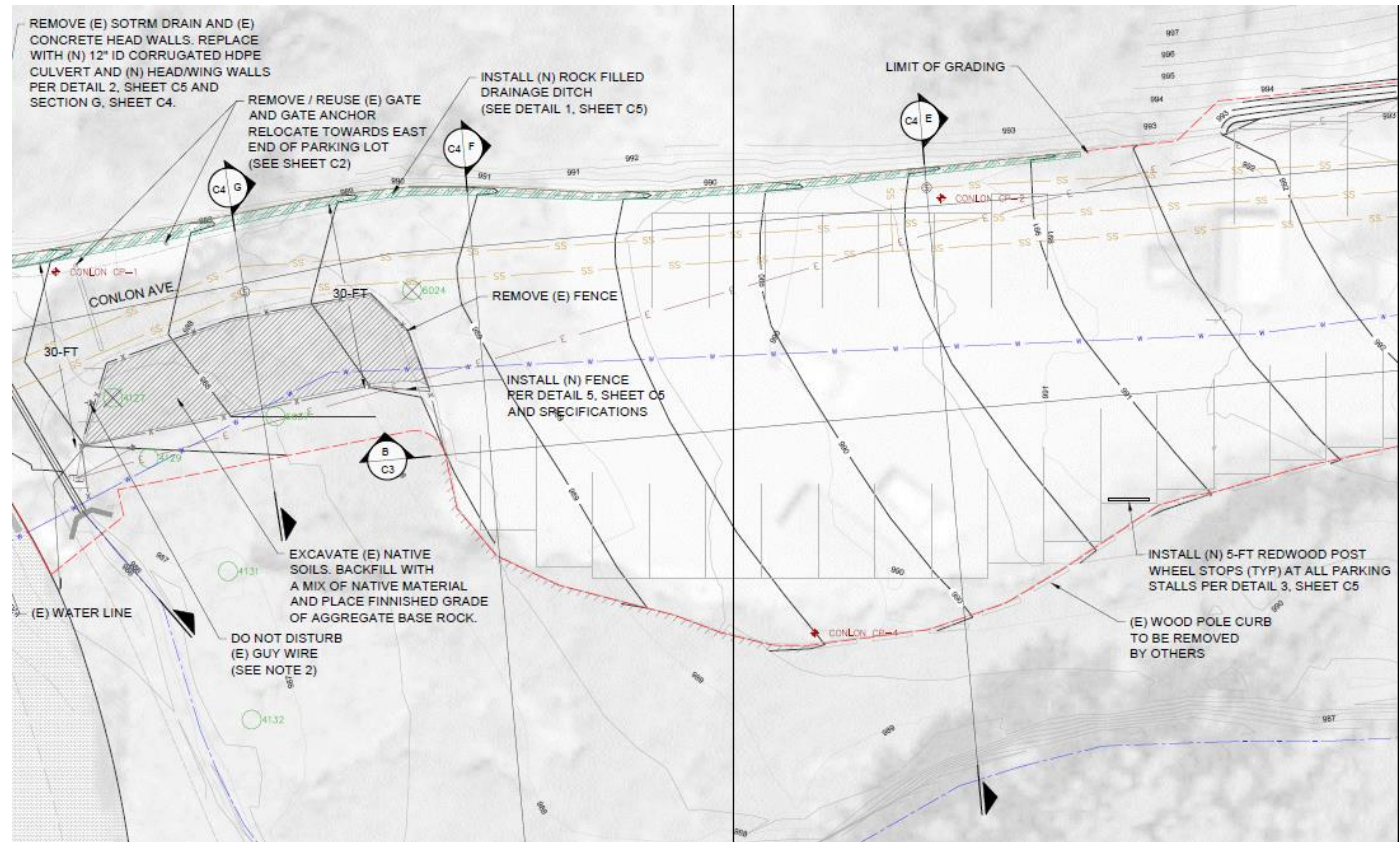
- Operating CMS signs during high visitation periods to inform visitors of lack of parking and congestion

Messaging

- NPS websites, social media, and press releases have highlighted challenges and encouraged alternative options

The seal of the County of Marin is located in the bottom right corner. It features a stylized graphic of a mountain peak and a coastline, with the text "COUNTY OF MARIN" written below it.

Conlon Ave



MUIR WOODS MOU UPDATE

OTHER IMPROVEMENTS

Conlon Ave - Before



MUIR WOODS MOU UPDATE

OTHER IMPROVEMENTS

Conlon Ave - After



MUIR WOODS MOU UPDATE

OTHER IMPROVEMENTS

Conlon Ave - After





MUIR WOODS MOU UPDATE

RESERVATION SYSTEM

- After the MOU and EA was finalized in 2015, NPS developed an internal timeline of project milestones for the reservation system development. We have consistently stayed on track with this schedule
- Over this past winter NPS completed the necessary financial analysis for the reservation system concession contract and worked on agreement with Marin Transit.
- NPS has determined it is a financially and operationally feasible opportunity within the target pricing and operational requirements
- Development of the draft Prospectus for the 10-year concession contract solicitation is underway we anticipate its released to possible applicants before the end of calendar year 2016
- We remain on track for implementation of the Reservation system in the second half of 2017, timing dependent on the success of the solicitation and contracting process



MUIR WOODS MOU UPDATE

OTHER EFFORTS

Upcoming Projects

- Muir Woods Road Sustainable Access Project (June 27th meeting)
 - Redesign of parking and arrival facilities
 - Will be consistent with MOU
 - Improve stormwater management
 - Provide for further removal of parking from Muir Woods Road
 - Improve safety